at1121exam_practice: Radicals and Squares (v615)

Question 1

Simplify the radical expressions.

$$\sqrt{75} \qquad\qquad \sqrt{98} \qquad\qquad \sqrt{8}$$

Question 2

Find all solutions to the equation below:

$$8\left((x-7)^2 - 10\right) = 48$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 16x = 80$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 3x^2 - 24x + 42$$

Express the function in **vertex form** and identify the **location** of the vertex.